

Patent Abstracts of Japan

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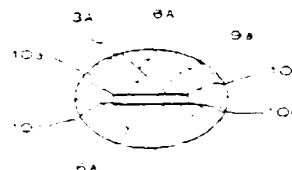
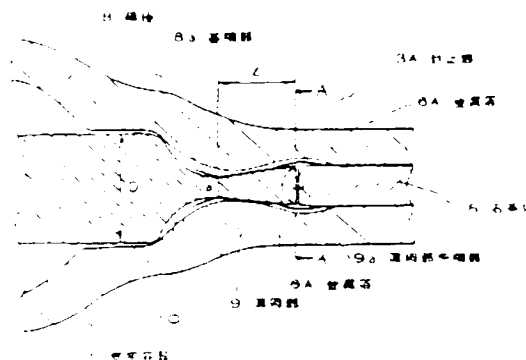
APPLICATION DATE : 23-01-86
 APPLICATION NUMBER : 61011008

APPLICANT : TOSHIBA CORP.

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TITLE : HIGH PRESSURE DISCHARGE LAMP



ABSTRACT : PURPOSE: To prevent distinction caused by the break of metal foil for sealing and at the same time increase the strength of the sealed part by forming a thin part at the large diameter base end part of one of electrodes and forming a specific slope at said thin part so as to become thicker toward its tip portion.

CONSTITUTION: At the sealed part of a silica-glass-made air-tight envelope sealed xenon gas in, its base end part 8a has a nearly flat thin part 9 with the length l of 7mm formed whose thickness is wedge-shaped from the thickness of 2.2mm at the point a to the thickness t of 2.7mm at the tip portion 9a. A metal foil 6A is that for sealing made from, for example, very thin molybdenum as 5mm in width and 26 μ m in thickness at its maximum thick part and pinches a silica material 5 called separator glass in the same way as the negative electrode 4 side and is connected to a positive electrode 8 through platinum at one end and an external lead-in element at another end respectively. Even at the time of switching the lamp on or off, the thin part 9 comes to be in a state of being wedge-attached to silica glass of the sealed part 3A, resulting in lessening expansion and contraction. Therefore, expanding and contracting forces applied to the material foil 6A are weakened and the break of the foil caused by mechanical fatigue can be prevented.

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